### Management Control Evaluation Checklist Frequency Supportability for Equipment or System Research and Development

REGULATION NUMBER:	AR 5-12
DATE OF REGULATION:	1 Nov 97

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<b>Assessable Unit:</b>	(Mailing address and I	ohone number)		

**Function.** The function covered by this checklist is to determine Frequency Supportability for Equipment or System Research and Development (R&D). Information Mission Activities: Radio Frequency Spectrum Management.

**Purpose.** The purpose of this checklist is to assist program/project/product managers, contracting officers, or commanders at all levels responsible for; coordination and integration of the research and development, test, acquisition, fielding, procurement, leasing, modification, installation, or operation of Army materiel requiring radio frequency spectrum support under AR 5-12. To plan for appropriate frequency supportability considerations early in the acquisition life cycle (e.g. during Concept Exploration Phase), and include in appropriate documentation. To insure frequency supportability requirements are included in all documentation used for the research and development (R&D) of all devices, equipment, and systems that will transmit and receive RF energy. The controls listed provide reasonable assurance that Army resources are adequately safeguarded.

**Instructions.** Answers must be based on the actual testing of key management controls such as document analysis, direct observation, interviewing, sampling, and simulation. Answers that indicate deficiencies must be explained and corrective action must be identified in supporting documentation. This checklist must be used 120 days after publication and every two years thereafter. Certification that this evaluation has been conducted must be accomplished on the enclosed DA Form 11-2-R (Management Control Evaluation Certification Statement).

**Comments.** Help make this a better tool for evaluating management controls. Submit comments to HQDA ATTN: SAIS-PAS-M (The Army Spectrum Manager) Army, Pentagon, WASH DC 20310.

<b>Evaluation conducted</b>	by: (Name, Grade, Title,	Office Branch, T	elephone Numbo	er)	<b>Date of Evaluation</b>
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**Evaluation Results:** (Document the evaluation results on DA Form 11-2-R, in item 7)

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	RES	RESPONSE			TESTING APPROACH			
TEST QUESTIONS	Y E S	N O	N / A	Document Analysis	Direct Observation	Sampling	Simulation	
(Negative answers indicate a management control weakness.)					On .			
a. Has the operational capability of the proposed systems been identified?								
b. Based on operational capability, have specific missions to be supported by the system, and functions of the subsystem, been identified?								
c. Have telecommunications requirements needed to support the proposed mission been identified (e.g., data rates, circuit quality/reliability)?								
d. Have alternate communications systems or subsystems not requiring frequency supportability been identified?								
e. Have signal and/or software requirements been considered?								
f. Have appropriate EMC considerations been given to the frequency tunability of the contemplated equipment/hardware?								
g. Has consideration been given to intra-system implications on flexibility and EMC, and side effects on personnel and explosives?								
h. Can off-the-shelf equipment be used?								
i. If off-the-shelf equipment cannot be used, is new equipment necessary?								

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	RES				TESTING APPROACH		
TEST QUESTIONS:	Y E S	N O	N / A	Document Analysis	Direct Observation	Sampling	Simulation
(Negative answers indicate a management control weakness.)					0n		
j. If new equipment is necessary, does this mean advancing the state-of-the-art to meet the elecommunications requirements?							
k. Based only on technical factors, have idealized frequency bands or ranges been identified which could best support the telecommunications requirements?							
1. Do existing allocations provide for the services required by the system in the idealized frequency bands?							
m. If allocation support does not exist in the idealized bands, are there any appropriately allocated bands that could satisfy the telecommunications requirements?							
n. Have penalties (in terms of time, cost, and performance) been associated with the available frequency allocation alternatives?							
o. Have areas or locations been identified in which the proposed system is to be deployed?							
p. Has adequate consideration been given to the electromagnetic environment including: idealized versus available frequencies; and tradeoffs of time, cost, and performance?							
q. Has a final study been published which supports rationale for band selection?							
r. Are there any system limitations that may be imposed by electromagnetic environment factors?							